

SEQUENCE LISTING

DIVERSA CORPORATION

SHORT, Jay KELLER, Martin LAFFERTY, William

<120> HIGH THROUGHPUT OR CAPILLARY-BASED SCREENING FOR A BIOACTIVITY OR BIOMOLECULE

<130> DIVER1280-17

<140> US 09/975,036

<141> 2001-10-10

<150> US 09/894,956

<151> 2001-06-27

<150> US 09/790,321

<151> 2001-02-21

<150> US 09/687,219

<151> 2000-10-12

<150> US 09/685,432

<151> 2000-10-10

<150> US 09/444,112

<151> 1999-11-22

<150> US 09/098,206

<151> 1998-06-16

<150> US 08/876,276

<151> 1997-06-16

<150> US 09/738,871

<151> 2000-12-14

<150> US 60/309,101

<151> 2001-07-31

<160> 9

<170> PatentIn version 3.1

<210> 1

<211> 20

<212> DNA

<213> Artificial sequence

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<223> Forward primer for PCR

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<220>
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                                                                     19
ggttaccttg ttacgactt
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acttccggct cgtatattgt gtgg
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acgactcact atagggcgaa ttggg
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Ser Thr Gly Cys Thr Ser Gly Leu Asp Ser Val Gly Tyr Ala Val Gln
               5
Leu Ile Arg Glu Gly Ser Ala Asp Val Val Ile Ala Gly Ala Ala Asp
            20
Thr Pro Val Ser Pro Ile Val Val Ala Cys Phe Asp Ala Ile Lys Ala
        35
Thr Thr Pro Arg Asn Asp Asp Pro Glu His Ala Ser Arg Pro Phe Asp
                        55
Gly Thr Arg Asn Gly Phe Val Leu Ala Glu Gly Ala Ala Met Phe Val
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75

70

Leu Glu Glu Tyr Glu Ala Ala Lys Arg Gly Ala His Ile Tyr Ala 85 90 95

Glu Val Gly Gly Tyr Ala Thr Arg Cys Asn Ala Tyr His Met Thr Gly
100 105 110

Leu Lys Lys Asp Gly Arg Glu Met Ala Glu Ala Ile Arg Ala Ala Leu 115 120 125

Asp Glu Ala 130

<210> 6

<211> 132

<212> PRT

<213> Streptomyces cyaneus

<400> 6

Val Ser Thr Gly Cys Thr Ser Gly Leu Asp Ala Val Gly Tyr Ala Phe 1 5 10 15

His Thr Ile Glu Glu Gly Arg Ala Asp Val Cys Ile Ala Gly Ala Ser 20 25 30

Asp Ser Pro Ile Ser Pro Ile Thr Met Ala Cys Phe Asp Ala Ile Lys 35 40 45

Ala Thr Ser Pro Asn Asn Asp Asp Pro Glu His Ala Ser Arg Pro Phe 50 55 60

Asp Ala His Arg Asp Gly Phe Val Met Gly Glu Gly Ala Ala Val Leu 65 70 . 75 80

Val Leu Glu Glu Leu Glu His Ala Arg Ala Arg Gly Ala His Val Tyr 85 90 95

Cys Glu Ile Gly Gly Tyr Ala Thr Phe Gly Asn Ala Tyr His Met Thr
100 105 110

Gly Leu Thr Ser Glu Gly Leu Glu Met Ala Arg Ala Ile Asp Val Ala 115 120 125

Leu Asp His Ala 130

<210> 7

<211> 132

<212> PRT

<213> Streptomyces halstedii

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Val Ser Thr Gly Cys Thr Ser Gly Leu Asp Ala Val Gly Tyr Ala Tyr

His Ala Ile Ala Glu Gly Arg Ala Asp Val Cys Leu Ala Gly Ala Ser

Asp Ser Pro Ile Ser Pro Ile Thr Met Ala Cys Phe Asp Ala Ile Lys

Ala Thr Ser Pro Ser Asn Asp Asp Pro Glu His Ala Ser Arg Pro Phe

Asp Ala Arg Arg Asn Gly Phe Val Met Gly Glu Gly Gly Ala Val Leu 70

Val Leu Glu Glu Leu Glu His Ala Arg Ala Arg Gly Ala Asp Val Tyr 85

Cys Glu Leu Ala Gly Tyr Ala Thr Phe Gly Asn Ala His His Met Thr

Gly Leu Thr Arg Glu Gly Leu Glu Met Ala Arg Ala Ile Asp Thr Ala 120

Leu Asp Met Ala 130

<210> 8

<211> 132 <212> PRT

<213> Streptomyces peucetius

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Glu Leu Ile Arg Glu Gly Thr Val Asp Ala Met Val Ala Gly Gly Val 20 25

Asp Ala Pro Ile Ala Pro Ile Thr Val Ala Cys Phe Asp Ala Ile Arg

Ala Thr Ser Asp His Asn Asp Thr Pro Glu Thr Ala Ser Arg Pro Phe 55

Ser Arg Ser Arg Asn Gly Phe Val Leu Gly Glu Gly Gly Ala Ile Val 70

Val Leu Glu Glu Ala Glu Ala Ala Val Arg Arg Gly Ala Arg Ile Tyr

Ala Glu Ile Gly Gly Tyr Ala Ser Arg Gly Asn Ala Tyr His Met Thr 105 100

Gly Leu Arg Ala Asp Gly Ala Glu Met Ala Ala Ala Ile Thr Ala Ala 120 125 115

Leu Asp Glu Ala 130

<210> 9

<211> 132 <212> PRT <213> Escherichia coli

<400> 9

Ile Ala Thr Ala Cys Thr Ser Gly Val His Asn Ile Gly His Ala Ala

Arg Ile Ile Ala Tyr Gly Asp Ala Asp Val Met Val Ala Gly Gly Ala

Glu Lys Ala Ser Thr Pro Leu Gly Val Gly Gly Phe Gly Ala Ala Arg

Ala Leu Ser Thr Arg Asn Asp Asn Pro Gln Ala Ala Ser Arg Pro Trp

Asp Lys Glu Arg Asp Gly Phe Val Leu Gly Asp Gly Ala Gly Met Leu 75

Val Leu Glu Glu Tyr Glu His Ala Lys Lys Arg Gly Ala Lys Ile Tyr 90

Ala Glu Leu Val Gly Phe Gly Met Ser Ser Asp Ala Tyr His Met Thr

Ser Pro Pro Glu Asn Gly Ala Gly Ala Ala Leu Ala Met Ala Asn Ala 120

Leu Arg Asp Ala